Water Data Project for Groots

Deployment - AWS deployment considerations - Groots

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# Scope

Settings configured on an AWS so KoBoToolbox can run

# AWS Tech involved

## Main Account

**Account Id:** 316832320900

**Email:** aws-bo@groots.com

**Seller:** AWS EMEA SARL

**Account Name:** Bolivia Agenda 2030

**Full Name:** Bolivia Agenda 2030

**Address:** Danziger Straße 64

**City:** Berlin

**State:** Berlin

**Postal Code:** 10435

**Country:** DE

**Phone Number:** 017666640214

**Company Name:** Groots Consulting UG

**Website URL:**

## Regions

**Main**: us-east-2 (Ohio)

**S3 buckets**: us-east-1 (N. Virginia)

## IAM Accounts

* kobo-backup-user
  + Used to perform S3 connections
  + Group: s3-backup-admin
* ses-smtp-user.20201126-153420
  + Used by SES
  + Group: None

## S3 Buckets

* **REGION**: us-east-1 (Northern Virginia)
* [proagenda2030-bo-kobotoolbox](https://s3.console.aws.amazon.com/s3/buckets/proagenda2030-bo-kobotoolbox?region=us-east-1)
  + Backups
* [proagenda2030-bo-forms](https://s3.console.aws.amazon.com/s3/buckets/proagenda2030-bo-forms?region=us-east-1)
  + Backups (yearly, montly, daily)

## R53 DNS values

* Hosted Zone:
  + [nexion-dev.tk](https://console.aws.amazon.com/route53/v2/hostedzones#/ListRecordSets/Z00833281CKGTKX4X5S2M) (provisional)

|  |  |  |  |
| --- | --- | --- | --- |
| **Record name** | **Type** | **Value/Route traffic to** | **TTL (seconds)** |
| nexion-dev.tk | NS | ns-533.awsdns-02.net.  ns-1693.awsdns-19.co.uk.  ns-1418.awsdns-49.org.  ns-297.awsdns-37.com. | 172800 |
| nexion-dev.tk | SOA | ns-533.awsdns-02.net. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400 | 900 |
| \_amazonses.nexion-dev.tk | TXT | "Tz2ci+73tAN/JmiHjNbhmCY8IU0+3qfYbOvMm9iUItY=" | 300 |
| tohu3jacaoygbsabl4i2ol3okkdrms5j.\_domainkey.nexion-dev.tk | CNAME | tohu3jacaoygbsabl4i2ol3okkdrms5j.dkim.amazonses.com | 300 |
| trb5bi4fzo555hy3mhqthxlmahmvbf6z.\_domainkey.nexion-dev.tk | CNAME | trb5bi4fzo555hy3mhqthxlmahmvbf6z.dkim.amazonses.com | 300 |
| zmjxw3nuthgyanw7jwlzx4xfohr2efie.\_domainkey.nexion-dev.tk | CNAME | zmjxw3nuthgyanw7jwlzx4xfohr2efie.dkim.amazonses.com | 300 |
| ee.nexion-dev.tk | A | 18.191.95.39 | 300 |
| kc.nexion-dev.tk | A | 18.191.95.39 | 300 |
| kf.nexion-dev.tk | A | 18.191.95.39 | 300 |
| support.nexion-dev.tk | A | 18.191.95.39 | 300 |
| dashboards.nexion-dev.tk | A | 18.191.95.39 | 300 |

## SES configuration

**Domain**: nexion-dev.tk

**Account Details:**

|  |  |
| --- | --- |
| **Production Access** | Enabled |
| **Mail type** | Transactional |
| **Website URL** | https://kf.nexion-dev.tk/ |
| **Use case description** | Need to send email for new users |
| **Additional contact addresses** | dev-support@nexion.com.bo |
| **Preferred contact language** | English |

## EC2 Instance

|  |  |
| --- | --- |
| **Name** | **Value** |
| Instance ID | i-05b755551b8c37877 |
| Public DNS (IPv4) | ec2-3-139-204-38.us-east-2.compute.amazonaws.com |
| IPv4 Public IP | 3.139.204.38 |
| Instance type | t3a.medium |
| IPv6 IPs | - |
| Private DNS | ip-172-31-33-50.us-east-2.compute.internal |
| Availability zone | us-east-2c |
| Private IPs | 172.31.33.50 |
| VPC ID | vpc-ed328086 |
| AMI ID | ubuntu/images/hvm-ssd/ubuntu-bionic-18.04-amd64-server-20201026 (ami-0dd9f0e7df0f0a138) |
| Platform | Ubuntu |
| Subnet ID | subnet-889de6c4 |
| Platform details | Linux/UNIX |
| Network interfaces | eth0 |
| Key pair name | groots-nexion-water-proj |
| Root device type | ebs |
| Termination protection | False |
| Root device | /dev/sda1 |
| Lifecycle | normal |
| Block devices | /dev/sda1 |
| Number of vCPUs | 2 |

## Elastic IP

3.139.204.38

# KoBoToolbox Installation values

python3 run.py -s

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║

║ Welcome to kobo-install.

║

║ You are going to be asked some questions that will determine how

║ to build the configuration of `KoBoToolBox`.

║

║ Some questions already have default values (within brackets).

║ Just press `enter` to accept the default value or enter `-` to

║ remove previously entered value.

║ Otherwise choose between choices or type your answer.

║

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Where do you want to install?

[/home/ubuntu/proagenda2030/kobo-docker]:

Please confirm path [/home/ubuntu/proagenda2030/kobo-docker]

1) Yes

2) No

[1]:

Do you want to see advanced options?

1) Yes

2) No

[1]:

What kind of installation do you need?

1) On your workstation

2) On a server

[2]:

Please choose which network interface you want to use?

ens5) 172.31.33.50

other) Other

[ens5]:

Do you want to use separate servers for frontend and backend?

1) Yes

2) No

[2]:

Public domain name? [nexion-dev.tk]:

KPI sub domain? [kf]:

KoBoCat sub domain? [kc]:

Enketo Express sub domain name? [ee]:

Do you want to use HTTPS?

1) Yes

2) No

[1]:

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║

║ Please note that certificates must be installed on a reverse-proxy

║ or a load balancer.kobo-install can install one, if needed.

║

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Auto-install HTTPS certificates with Let's Encrypt?

1) Yes

2) No - Use my own reverse-proxy/load-balancer

[1]:

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║

║ WARNING!

║

║ Domain names must be publicly accessible.

║ Otherwise Let's Encrypt will not be able to valid your

║ certificates.

║

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Email address for Let's Encrypt? [dev-support@nexion.com.bo]:

Please confirm [dev-support@nexion.com.bo]

1) Yes

2) No

[1]:

Internal port used by reverse proxy?

[8080]:

SMTP server? [email-smtp.us-east-2.amazonaws.com]:

SMTP port? [587]:

SMTP user? [AKIAU\*\*\*\*\*\*\*\*\*\*\*\*\*\*OMNL]:

SMTP password [<THIS IS A SECRET>]:

Use TLS?

1) Yes

2) No

[1]:

From email address? [dev-support@nexion.com.bo]:

Super user's username? [super\_admin]:

Super user's password? [<THIS IS A SECRET>]:

Docker Compose prefix? (leave empty for default) []:

Use staging mode?

1) Yes

2) No

[2]:

KoBoCat PostgreSQL database name?

[kobocat]:

KPI PostgreSQL database name?

[koboform]:

PostgreSQL user's username?

[kobo]:

PostgreSQL user's password?

[<THIS IS A SECRET>]:

Do you want to tweak PostgreSQL settings?

1) Yes

2) No

[2]:

MongoDB root's username?

[root]:

MongoDB root's password?

[<THIS IS A SECRET>]:

MongoDB user's username?

[kobo]:

MongoDB user's password?

[<THIS IS A SECRET>]:

Redis password?

[<THIS IS A SECRET>]:

Do you want to expose backend container ports (`PostgreSQL`, `MongoDB`, `redis`)?

1) Yes

2) No

[2]:

Do you want to customize the application secret keys?

1) Yes

2) No

[2]:

Do you want to use AWS S3 storage?

1) Yes

2) No

[1]:

AWS Access Key [AKIAU\*\*\*\*\*\*\*\*\*R2H3OJ]:

AWS Secret Key [<THIS IS A SECRET>]:

AWS Bucket name [proagenda2030-bo-kobotoolbox]:

Would you like to validate your AWS credentials?

1) Yes

2) No

[1]:

AWS credentials successfully validated

Google Analytics Identifier []:

Google API Key []:

Do you want to use Sentry?

1) Yes

2) No

[2]:

Do you want to tweak uWSGI settings?

1) Yes

2) No

[2]:

Do you want to activate backups?

1) Yes

2) No

[1]:

Do you want to use WAL-E for continuous archiving of PostgreSQL backups?

1) Yes

2) No

[2]:

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║ Schedules use linux cron syntax with UTC datetimes.

║ For example, schedule at 12:00 AM E.S.T every Sunday would be:

║ 0 5 \* \* 0

║

║ Please visit https://crontab.guru/ to generate a cron schedule.

║

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PostgreSQL backup schedule?

[0 2 \* \* \*]:

MongoDB backup schedule?

[10 2 \* \* \*]:

Redis backup schedule?

[20 2 \* \* \*]:

AWS Backups bucket name [proagenda2030-bo-kobo-backups]:

How many yearly backups to keep?

[2]:

How many monthly backups to keep?

[12]:

How many weekly backups to keep?

[4]:

How many daily backups to keep?

[30]:

PostgresSQL backup minimum size (in MB)?

Files below this size will be ignored when rotating backups.

[50]:

MongoDB backup minimum size (in MB)?

Files below this size will be ignored when rotating backups.

[50]:

Redis backup minimum size (in MB)?

Files below this size will be ignored when rotating backups.

[5]:

Chunk size of multipart uploads (in MB)?

[15]:

Use AWS LifeCycle deletion rule?

1) Yes

2) No

[2]:

Existing data found for kf.nexion-dev.tk,kc.nexion-dev.tk,ee.nexion-dev.tk. Continue and replace existing certificate? (y/N)